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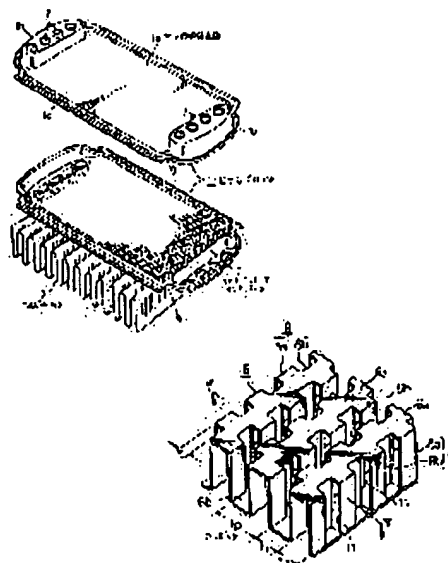
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(54) LAMINATED TYPE HEAT EXCHANGER

(57)Abstract:

PURPOSE: To increase the exchange heat amount to improve the heat exchanger performance by using multi-entry type inner fins to set the fin pitch in a specific range.

CONSTITUTION: Plate-like tube elements 1 and corrugated fins 2 are alternately and vertically laminated in a plurality of stages. Each of tube elements 1 has at its intermediate portion a heat exchange medium passage 1a and at its both ends tank parts 1b communicating with the passage 1a and a relatively large expansion height. Further, multi-entry type inner fins 6 having a size extending the full part of a heat medium passage 1a in the inner part thereof are loaded therein so that the flow direction is along a direction of connecting the tank parts 1b and 1b. The multi entry type inner fins 6 are formed by folding a single plate continuously in a U-shape. The fin pitch f_p of the inner fins 6 is set to $3.0W \sim 0.6mm$. By this organization, the heat transfer property with respect to the circuit apparatus wall is high by the remarkable turbulence effect of the heat exchanger.



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